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WRA0009-US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: CHISHOLM, ET AL. Serial No.: 10/518,920 Filed: August 29, 2005 For: IMPROVEMENTS FOR NUCLEAR QUADRUPOLE RESONANCE MEASUREMENTS	Art Unit: 2862 Examiner: Not Assigned Yet
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record in the above-identified application the document or documents referenced on the attached Form PTO-1449. A copy of each reference (if required) is enclosed herewith.

The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicants do not believe that a fee is due for filing this paper. However, should a first action on the merits have been issued on the same day or before this Information Disclosure Statement is filed, please accept this Information Disclosure Statement under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 03-3975, under Order No. WRA0009-US and proceed to consider this Information Disclosure Statement.

Serial No.: 10/518,920
Art Unit: 2862

Attorney's Docket No.: WRA0009-US
Page 2

It is respectfully requested that the information be expressly considered during the prosecution of this application, and that each reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This submission does not represent that any referenced document is material or constitutes "prior art." If it should be determined that one or more of the referenced documents constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the reference or references.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over any referenced document, should it be applied against the claims of the present application.

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Date: February 7, 2006

Respectfully submitted,

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/518,930		
		Filing Date	August 39, 2005		
		First Named Inventor	CHISHOLM, ET AL.		
		Art Unit	2862		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	2	Attorney Docket Number	WRA0009-US

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US4,063,150	12/13/1977	Ohte et al.	
		US5,047,783	09/10/1991	Hugenin	
		US5,109,853	05/05/1992	Taicher et al.	
		US5,168,224	12/01/1992	Maruizumi et al.	
		US5,227,800	07/13/1993	Huguenin et al.	
		US5,365,171	11/15/1994	Buess et al.	
		US5,583,437	12/10/1996	Smith et al.	
		US5,592,083	01/07/1997	Magnuson et al.	
		US5,594,338	01/14/1997	Magnuson	
		US5,786,696	07/28/1998	Weaver et al.	
		US5,790,685	08/04/1998	Sallee	
		US5,986,455	11/16/1999	Magnuson	
		US6,054,856	04/25/2000	Garroway et al.	
		US6,091,240	07/18/2000	Smith et al.	
		US6,194,898	02/27/2001	Magnuson et al.	
		US6,222,364	04/24/2001	Smith et al.	
		US6,268,724	07/31/2001	Crowley	
		US6,342,835	01/29/2002	Nelson-White	
		US6,359,582	03/19/2002	MacAleese et al.	
		US6,392,408	05/21/2002	Barrall et al.	
		US6,577,128	06/10/2003	Smith et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		GB 2 319 086	05/13/1998	British Technology		
		WO 92/21989	12/10/1992	British Technology		
		WO 96/26453	08/29/1996	British Technology		
		WO 99/45408	09/10/1999	BTG International		

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	2
		Attorney Docket Number	WRA0009-US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SUITS ET AL., "Noise-Immune Coil for Unshielded Magnetic Resonance Measurements," Journal of Magnetic Resonance, Vol. 131, 1998, pp. 154-158	
		FLEXMAN ET AL., "The Detection of Explosives in Airport Luggage Using the Direct Nuclear Quadrupole Resonance Method," Detection of Bulk Explosives Advanced Techniques Against Terrorism, Proceedings of the NATO Advanced Research Workshop, held in St. Petersburg, Russia, 16-21 June 2003, Series: NATO Science Series II: Mathematics, Physics and Chemistry, Schubert, Kuznetsov (Eds.) 2004, pp. 113-124	
		HIRSCHFELD, "Short Range Remote NQR Measurements," Journal of Molecular Structure, Vol. 58, 1980, pp. 63-77	
		BUESS ET AL., "Explosives Detection by ¹⁴ N Pure NQR," Advances in Analysis and Detection of Explosives, 1993, pp. 361-368	
		GARROWAY ET AL., "Explosives Detection by Nuclear Quadrupole Resonance (NQR)," SPIE Vol. 2276, 1994, pp. 139-149	
		GARROWAY ET AL., "Narcotics and Explosives Detection by ¹⁴ N Pure NQR," SPIE Vol. 2092, 1993, pp. 318-327	
		LANDERS ET AL., "Electronic Effects and Molecular Motion in B-Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine Based on ¹⁴ N Nuclear Quadrupole Resonance Spectroscopy," Journal of Physical and Chemistry, Vol. 85, 1981, pp. 2618-2623	
		KARPOWICZ ET AL., "Liberational Motion of Hexahydro-1,3,5-Trinitro-S-Triazine Based on the Temperature Dependence of the Nitrogen-14 Nuclear Quadrupole Resonance Spectra: The Relationship to Condensed-Phase Thermal Decomposition," Journal of Physical Chemistry, Vol. 87, 1983, pp. 2109-2112	
		ANFEROV ET AL., "A Nuclear Quadrupole Resonance Thermometer with Frequency Locking," Journal of Molecular Structure, Vol. 83, 1982, pp. 365-368	

Examiner Signature		Date Considered	
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